CREATIVE BIOMART®
Assay Kit

D-Lactate Assay Kit

Product Information

Cat

Kit-2463

Cat.No. Kit-2463

Product Overview

Lactate is generated by lactate dehydrogenase (LDH) under hypoxic or anaerobic conditions. Monitoring lactate levels is, therefore, a good indicator of the balance between tissue oxygen demand and utilization and is useful when studying cellular and animal physiology. D-Lactate is produced in only minor quantities in animals and measuring for D-lactate in animal samples is a means to determine the presence of bacterial infection. Simple, direct and automation-ready procedures for measuring lactate concentration are very desirable. lactate assay kit is based on lactate dehydrogenase catalyzed oxidation of lactate, in which the formed NADH reduces a probe into a highly fluorescent product. The fluorescence intensity of this product, measured at λex/em = 530/585 nm, is proportional to the lactate concentration in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method FL530/585 nm

Compatible Sample Types

Serum, plasma, cell culture media etc

Features & Benefits

Sensitive and accurate. Detection limit of 1 μM and linearity up to 50 μM D-lactate in 96-well plate assay.

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Convenient. The procedure involves adding a single working reagent, and reading the fluorescence after 60 min. Room temperature assay.
High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

Assay time
60 min
Sensitivity
1 μM

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